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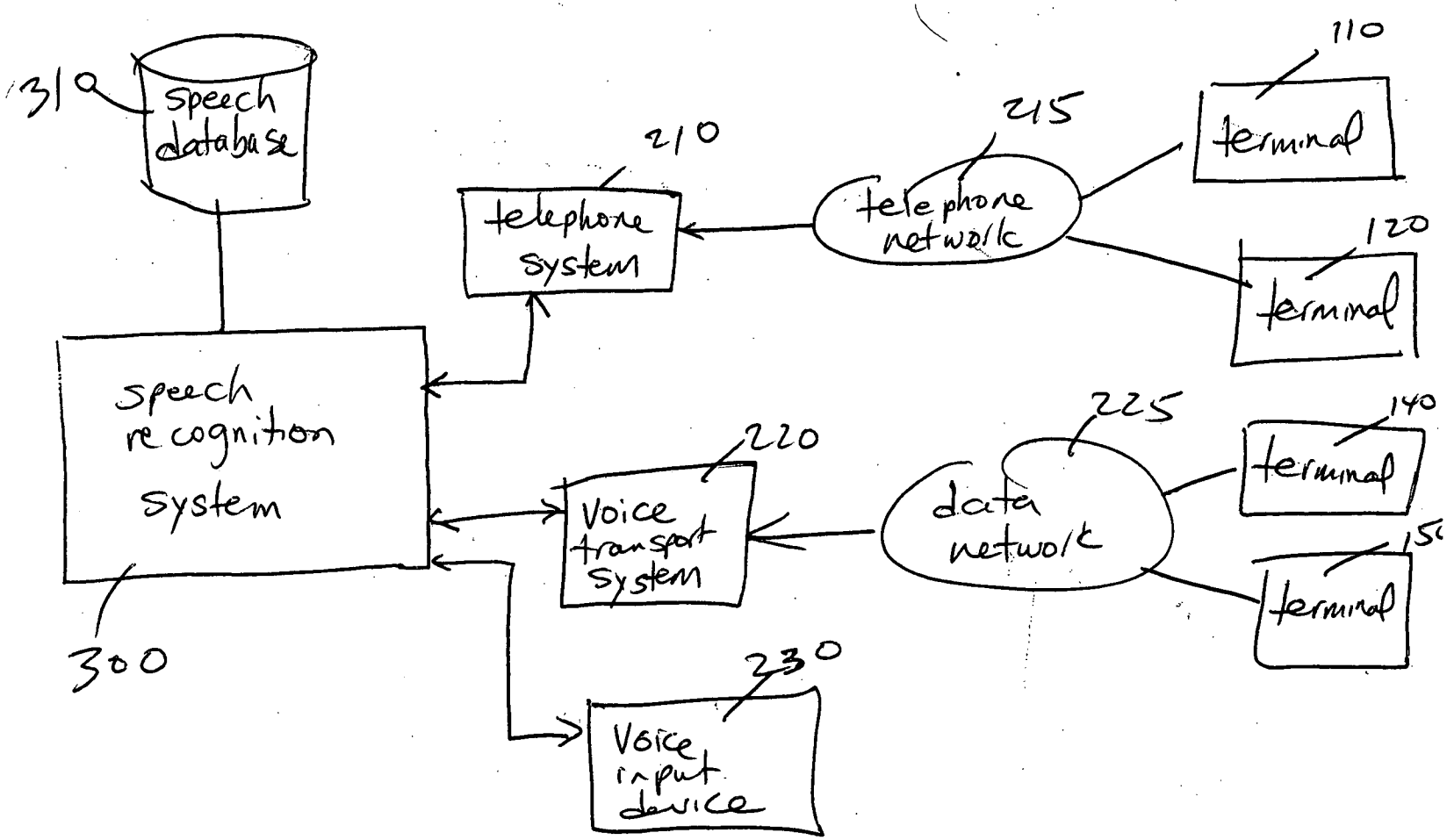

speech database
310
telephone system
210
telephone network
215
terminal
110
terminal
120
speech recognition system
300
Voice transport system
220
data network
225
terminal
140
terminal
150
Voice input device
230

FIG. 1

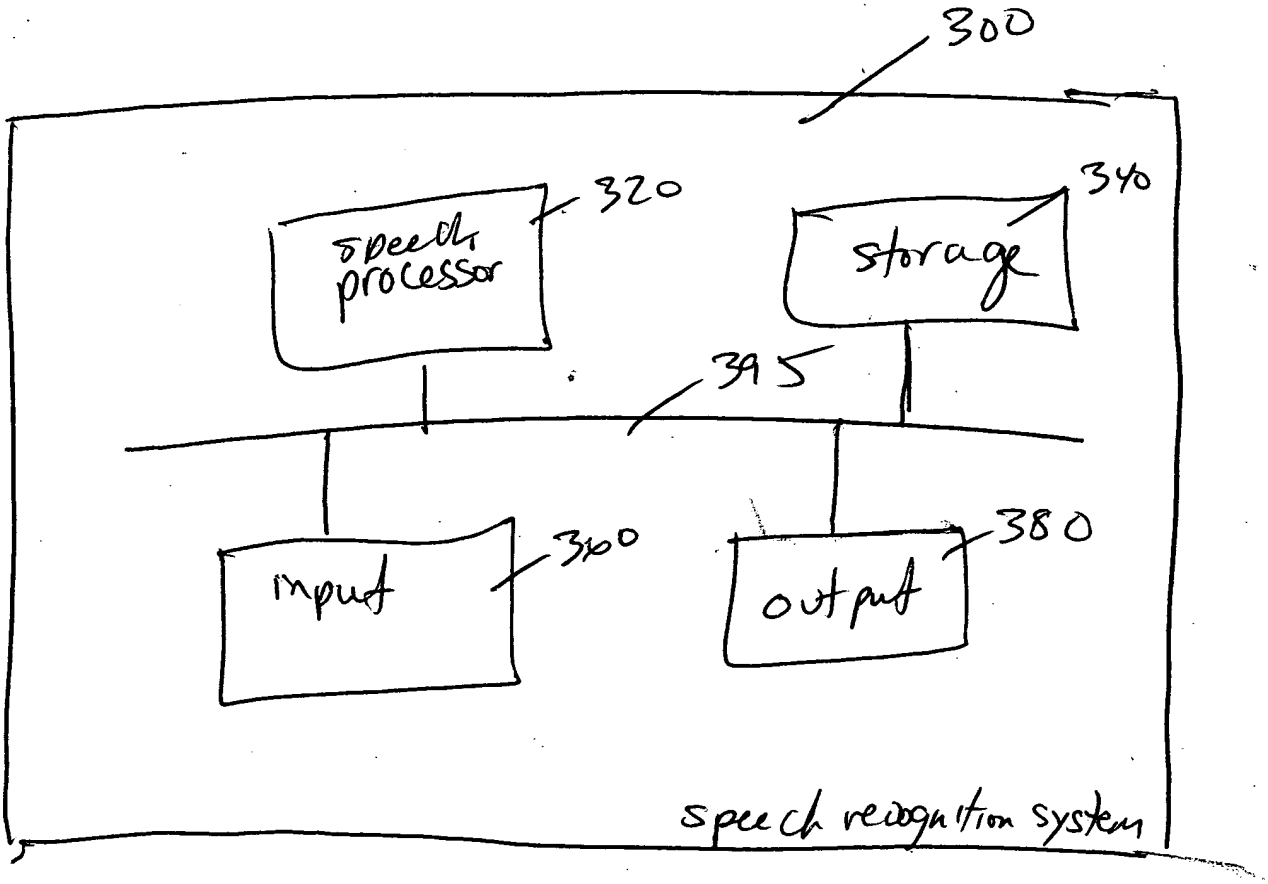

300
320
speech processor
340
storage
395
input
360
output
380
speech recognition system

FIG. 2

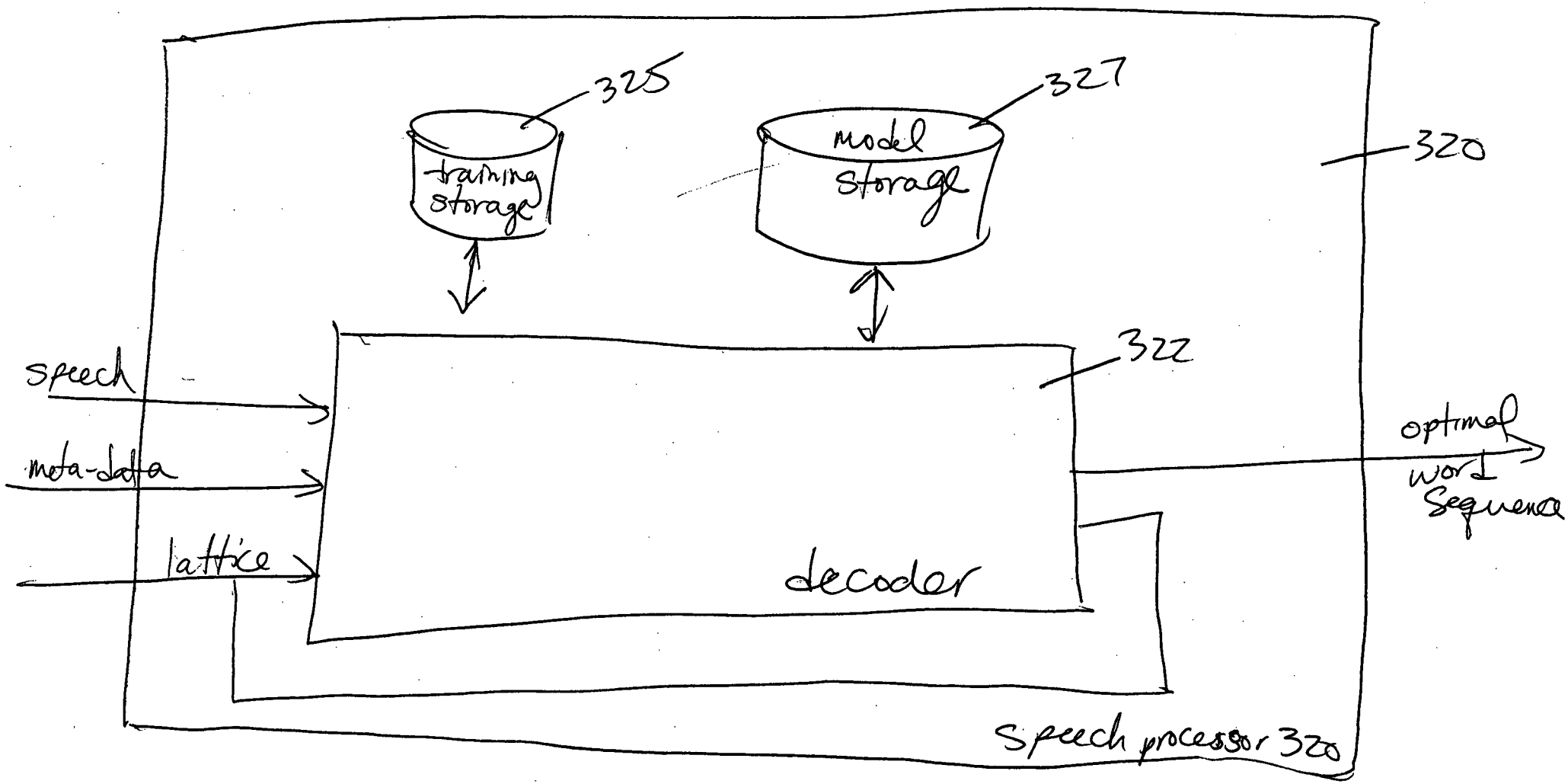

325
training storage
327
model storage
320
322
speech
meta-data
lattice
decoder
optimal word sequence
speech processor 320

FIG. 3

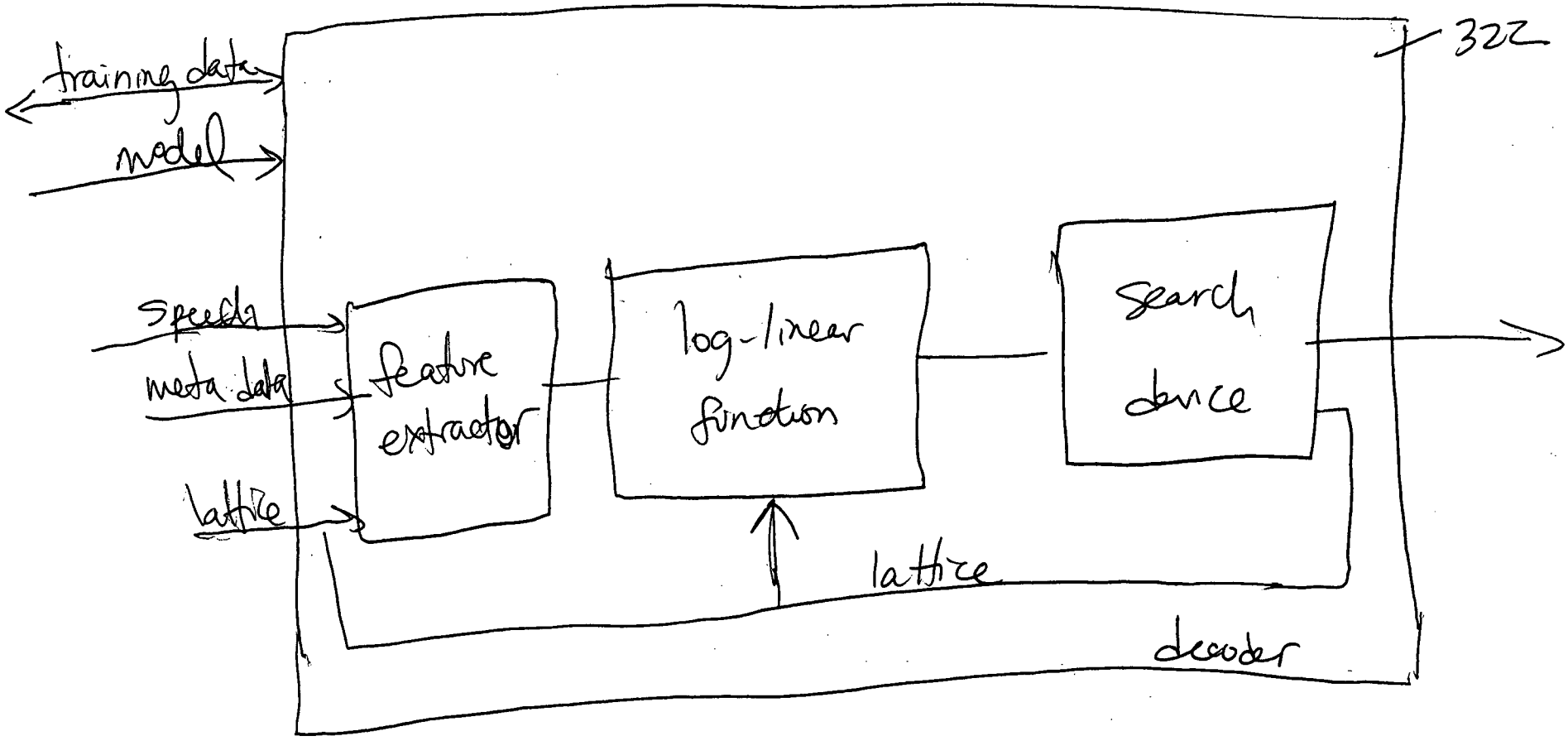

322
training data
model
speech
meta data
lattice
feature extractor
log-linear function
search device
lattice
decoder

FIG. 4

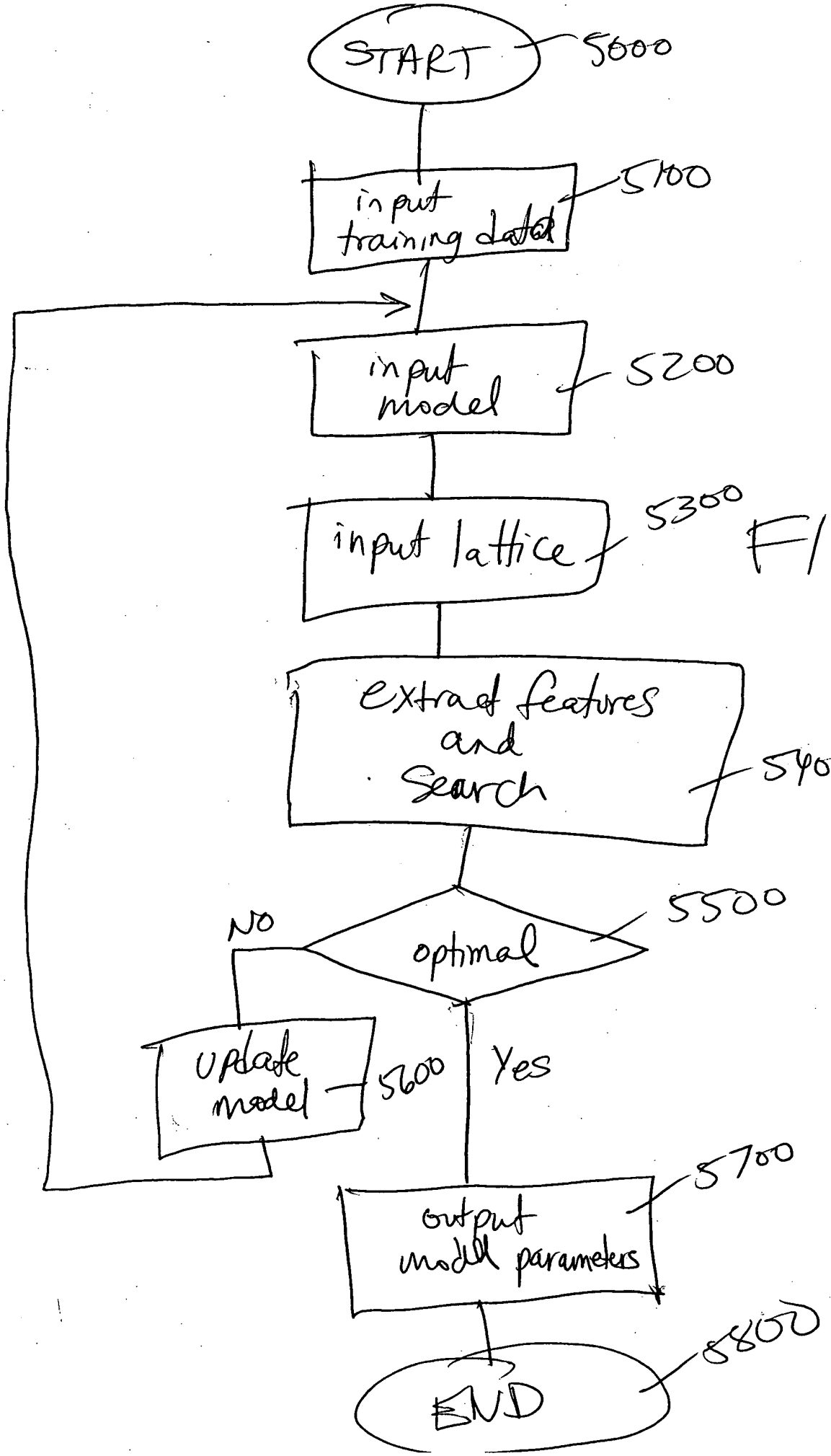
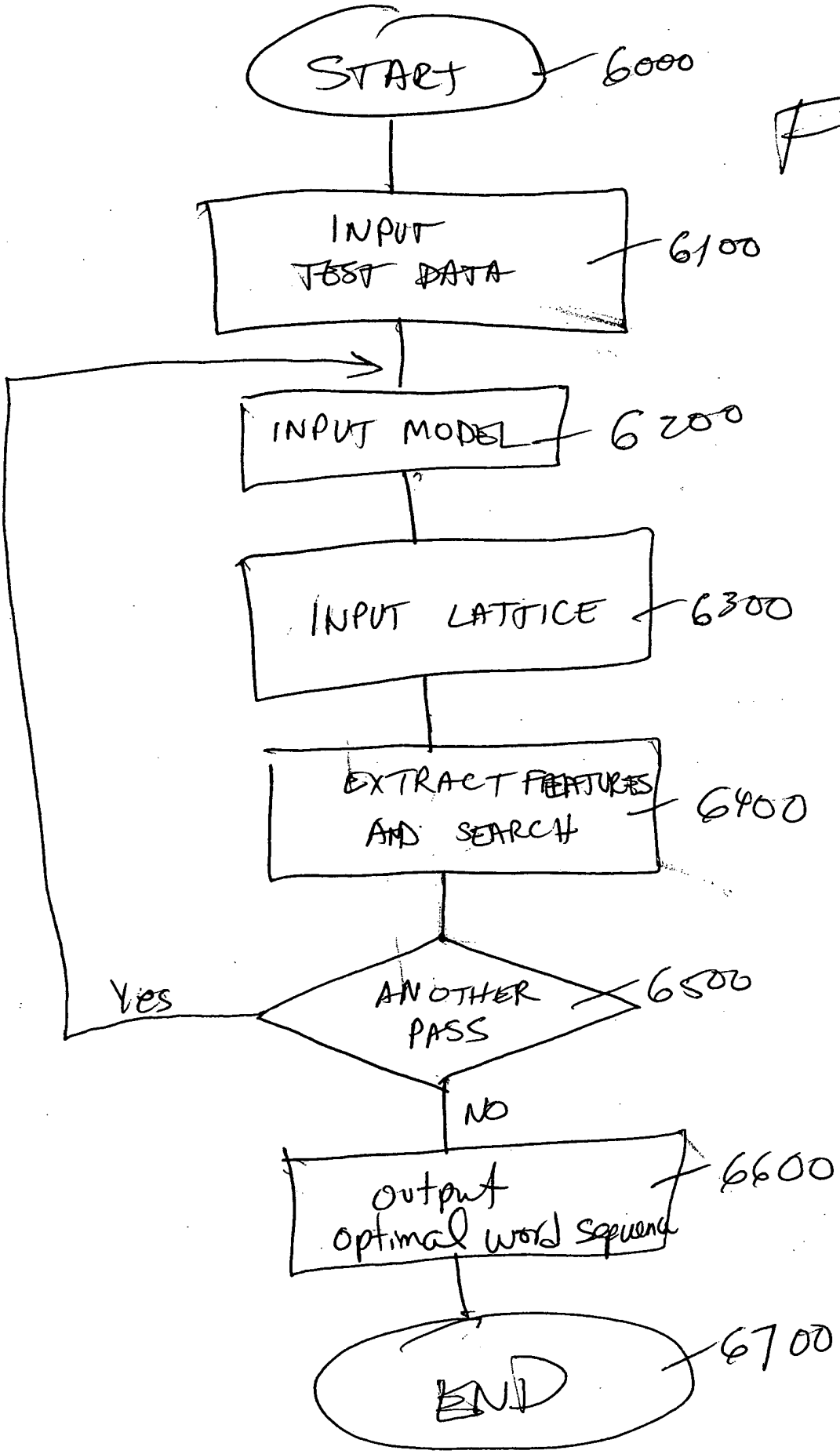

START
5000
input training data
5100
input model
5200
input lattice
5300
extract features and search
5400
optimal
5500
NO
Yes
update model
5600
output model parameters
5700
END
5800

FIG. 5

FIG. 6


START
6000
INPUT TEST DATA
6100
INPUT MODEL
6200
INPUT LATTICE
6300
EXTRACT FEATURES AND SEARCH
6400
ANOTHER PASS
6500
Yes
NO
output optimal word sequence
6600
END
6700